University of Wisconsin - Madison

Technological Solutions in Transportation:

Using Technology to Reduce SOV Travel

UW-Madison TDM Program Background



TDM Program started in 1993 Why?

- By 1993, 63% of employees reported that they drove alone to campus.
- Surface parking lots lost to other campus needs. New parking ramps are very costly.
- Environmental concerns
- Traffic congestion
- Community leadership

Flex Parking Program

- A "pay-as-you-use" parking program.
- Tests the theory that "pay-as-you-use" parking in conjunction with alternative transportation options reduces parking demand and SOV trips.
- Made possible by an EPA grant through the Office of Transportation and Air Quality
 Clean Air Transportation Communities: Innovative Projects to Improve Air Quality and Reduce Greenhouse Gases



In-Car Meters and Smart Cards

- In-Car Meters and Smart Cards were purchased to administer the pay-asyou-use parking program
- The system consists of two components: a personal portable parking meter and a prepaid smart card.
- Parking information such as parking fees, maximum time allowed for parking, actual time parked and zones or lot, are stored in the card's memory.
- When the reusable card is reloaded the information can be retrieved and used for statistical analysis.



Outcomes

Flex Parking Days by Sample Population	
2000-01 Refund Program	2001-02 "Pay-as-you-use" Program
18,072	12,824

Air Pollution Reduction:

Hydrocarbons (HC): 1460 lbs/year Carbon Monoxide (CO):10,950 lbs/year Nitrogen Oxides (NOx): 1460 lbs/year Carbon Dioxide (CO2):402,339.5 lbs/year



Future

 Currently have approximately 1100 employees using the In-Car Meters and Smart Cards.

 Radio Frequency Identification (RFID) technology.



Contacts

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